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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/728,608	12/05/2003	Robert S. Chau	42P14705D	9763

7590 01/11/2005

Michael A. Bernadicou
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EXAMINER

NGUYEN, DAO H

ART UNIT PAPER NUMBER

2818

DATE MAILED: 01/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Notice of Allowability

Application No.

10/728,608

Examiner

Dao H Nguyen

Applicant(s)

CHAU ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 01/05/2005.
2. ☒ The allowed claim(s) is/are 31-44 and 48-63.
3. ☒ The drawings filed on 05 January 2005 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |


David Nelms
Supervisory Patent Examiner
Technology Center 2800

DETAILED ACTION

1. In response to the communications dated 09/13/2004 through 01/05/2005, claims 31-44, and 48-72 are active in this application.

Claim(s) 1-30 and 45-47 have been cancelled.

New claim(s) 48-72 have been added.

Acknowledges

2. Receipt is acknowledged of the following items from the Applicant.
Correction to the drawing. Such correction has been considered and accepted.

Examiner's Amendment

3. An examiner's amendment to the record appears below. Should the changes and /or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.3.12. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

4. The following amendment has been made to the claim(s) upon agreement by applicant during a telephone conversation with Attorney Michael Bernadicou on 01/05/2005:

Cancel claims 64-72.

Remarks

5. Applicant's argument(s), filed 09/13/2004, with respect to currently pending claim(s) 31-44, have been fully considered and are persuasive. Therefore, the rejection of the last Office Action has been withdrawn; Furthermore, the pending claim(s) 31-44, and 48-63 are found in condition for allowance.

Reason for Allowance

6. The following is an examiner's statement of reason for allowance:

None of the references of record teaches or suggests the claimed method of forming a transistor comprising (in addition to the other limitations in the claim) forming a pair of source/drain regions adjacent to a narrow bandgap semiconductor film, wherein the gate electrode and the gate dielectric extending over a portion of the source/drain regions (claim 31); nor forming a transistor which uses an InSb alloy film as a narrow bandgap semiconductor film along with a high k dielectric film and metal electrode (claim 42); nor forming a pair of source/drain regions adjacent to a narrow bandgap semiconductor film, wherein the source/drain regions being formed from a semiconductor film having a larger bandgap energy than the narrow bandgap

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semiconductor film (claim 48); nor forming a transistor using a narrow bandgap semiconductor film and a high k gate dielectric layer (claim 52).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dao Nguyen whose telephone number is (571)272-1791. The examiner can normally be reached on Monday-Friday 9:00am – 6:00pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571)272-1787. The fax numbers for all communication(s) is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571)272-1625.

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A handwritten signature in black ink, appearing to read 'Dao', with a long horizontal line extending to the right.

Dao H. Nguyen
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January 5, 2005

A handwritten signature in black ink, appearing to read 'David Nelms', with a stylized flourish.

David Nelms
Supervisory Patent Examiner
Technology Center 2800